TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

FILE COPY

ANALYTICAL REPORT

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:
6-29-10

Job Number: 360-26898-1

Job Description: Quarterly Surfacewater

For:
Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441

Attention: Mr. Steven Morrow

Joseph A. Chimi

Approved for release.
Joe Chimi
Report Production Representative
2/26/10 12:34 PM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
02/26/2010

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TestAmerica Laboratories, Inc.
TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085
Tel (413) 572-4000 Fax (413) 572-3707 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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MADEP MCP Analytical Method Report Certification Form

Laboratory Name: **TestAmerica Westfield** Project #: **360-26898-1**

Project Location: MADEP RTN[1]:

This form provides certifications for the following data set:[list Laboratory Sample ID Number(s)]
360-26898-(1-8)

Sample Matrices:	Groundwater	Soil/Sediment		Drinking Water	**Other:**	
MCP SW-846 Methods Used	8260B( )	8151A ( )	8330 ( )	6010B (**x**)	7470A/1A ( )	Other ( )
	8270C( )	8081A ( )	VPH ( )	6020 ( )	9014M[2]/9012 ( )	
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3]( )	7196A ( )	

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes √		No[1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes √		No[1]
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, " Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes √	N/A	No[1]
D	**VPH and EPH methods only:** Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)?	Yes	N/A √	No[1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes √		No[1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes	N/A	No[1] √

[1] All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** Laboratory Director

Printed Name: Steven C. Hartmann **Date:** 2/26/10 12:28

The certification form has been electronically signed and approved. CAM VII A, Rev 3.2 April-04

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MADEP MA014
NY DOH 10843
RI DOH 57
CT DPH 0494
VT DECWSD

NELAP FL E87912 TOX
NELAP NJ MA008 TOX
NELAP NY 10843
NH DES 253901-A

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MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	**TestAmerica Westfield**	Project #:	**360-26898-1**
Project Location:		MADEP RTN[1]:	

This form provides certifications for the following data set:[list Laboratory Sample ID Number(s)]
360-26898-(1-8)

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	8270C( )	8081A ( )	VPH ( )	6020 ( )	9014M[2]/9012 ( )	
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3]( )	7196A ( )	

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List individual method and analyte.

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A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes √		No[1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes √		No[1]
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A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes √		No[1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes	N/A √	No[1]

[1] All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

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Printed Name: Steven C. Hartmann **Date:** 2/26/10 12:28

The certification form has been electronically signed and approved. CAM VII A, Rev 3.2 April-04

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CASE NARRATIVE

Client: Olin Corporation

Project: Quarterly Surfacewater

Report Number: 360-26898-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 02/18/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2 C of the required temperature or method specified range. For samples with a specified temperature of 4 C, samples with a temperature ranging from just above freezing temperature of water to 6 C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

MCP regulatory standard criteria were not specified for this report. Therefore, method reporting limits (RLs) were not assessed against any MCP standards as it may pertain to Question “E” on the Presumptive Certainty Certification Form (MADEP reference: WSC-CAM-AN-093008 - WSC-CAM Analytical Notes).

TOTAL METALS
Samples 360-26898-1 through 360-26898-8 were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 02/19/2010.

Chromium was detected in method blank MB 360-55194/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS
Samples 360-26898-1 through 360-26898-8 were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 02/19/2010.

The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

ANIONS
Samples 360-26898-1 through 360-26898-8 were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 02/19/2010.

Samples 360-26898-1 through 360-26898-8(10X) required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples 360-26898-1 through 360-26898-8 were analyzed for ammonia in accordance with LACHAT 107-06-1B. The samples were prepared and analyzed on 02/25/2010.

Samples 360-26898-2 through 360-26898-4(10X), 360-26898-5 and 360-26898-6(5X) required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE

Samples 360-26898-1 through 360-26898-8 were analyzed for specific conductance in accordance with SM 2510B. The samples were analyzed on 02/19/2010.

No difficulties were encountered during the specific conductance analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation Job Number: 360-26898-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
360-26898-1	**OC-SW-ISCO-3-0.2**					
Aluminum		91	J	100	ug/L	6010B
Sodium		77000		2000	ug/L	6010B
Sulfate		46		2.0	mg/L	300.0
Nitrate as N		1.2		0.050	mg/L	300.0
Chloride		160		10	mg/L	300.0
Ammonia		3.1		0.10	mg/L	L107-06-1B
Specific Conductance		700		1.0	umhos/cm	SM 2510B
Dissolved						
Sodium		81000		2000	ug/L	6010B
360-26898-2	**OC-SW-ISCO-2-0.2**					
Aluminum		3900		100	ug/L	6010B
Chromium		810	B	5.0	ug/L	6010B
Sodium		160000		2000	ug/L	6010B
Sulfate		450		20	mg/L	300.0
Nitrate as N		0.94		0.050	mg/L	300.0
Chloride		220		10	mg/L	300.0
Ammonia		72		1.0	mg/L	L107-06-1B
Specific Conductance		1700		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		510		100	ug/L	6010B
Chromium		170		5.0	ug/L	6010B
Sodium		170000		2000	ug/L	6010B
360-26898-3	**OC-SW-PZ-16RR-0.2**					
Aluminum		5300		100	ug/L	6010B
Chromium		1200	B	5.0	ug/L	6010B
Sodium		160000		2000	ug/L	6010B
Sulfate		320		20	mg/L	300.0
Nitrate as N		2.4		0.050	mg/L	300.0
Chloride		240		10	mg/L	300.0
Ammonia		40		1.0	mg/L	L107-06-1B
Specific Conductance		1500		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		220		100	ug/L	6010B
Chromium		130		5.0	ug/L	6010B
Sodium		160000		2000	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation Job Number: 360-26898-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
360-26898-4	**OC-SW-PZ-16RR-0.2-DUP**					
Aluminum		4800		100	ug/L	6010B
Chromium		1100	B	5.0	ug/L	6010B
Sodium		160000		2000	ug/L	6010B
Sulfate		310		20	mg/L	300.0
Nitrate as N		2.4		0.050	mg/L	300.0
Chloride		240		10	mg/L	300.0
Ammonia		43		1.0	mg/L	L107-06-1B
Specific Conductance		1500		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		210		100	ug/L	6010B
Chromium		120		5.0	ug/L	6010B
Sodium		160000		2000	ug/L	6010B
360-26898-5	**OC-SW-PZ-17RR-0.2**					
Aluminum		2600		100	ug/L	6010B
Chromium		630	B	5.0	ug/L	6010B
Sodium		140000		2000	ug/L	6010B
Sulfate		210		20	mg/L	300.0
Nitrate as N		3.3		0.050	mg/L	300.0
Chloride		230		10	mg/L	300.0
Ammonia		33		0.50	mg/L	L107-06-1B
Specific Conductance		1300		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		130		100	ug/L	6010B
Chromium		83		5.0	ug/L	6010B
Sodium		150000		2000	ug/L	6010B
360-26898-6	**OC-SW-SD-17-0.2**					
Aluminum		4600		100	ug/L	6010B
Chromium		840	B	5.0	ug/L	6010B
Sodium		130000		2000	ug/L	6010B
Sulfate		200		20	mg/L	300.0
Nitrate as N		3.6		0.050	mg/L	300.0
Chloride		240		10	mg/L	300.0
Ammonia		48		0.50	mg/L	L107-06-1B
Specific Conductance		1300		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		150		100	ug/L	6010B
Chromium		60		5.0	ug/L	6010B
Sodium		150000		2000	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-26898-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
360-26898-7	**OC-SW-PZ-18R-0.2**					
Aluminum		140		100	ug/L	6010B
Chromium		22	B	5.0	ug/L	6010B
Sodium		120000		2000	ug/L	6010B
Sulfate		86		2.0	mg/L	300.0
Nitrate as N		0.69		0.050	mg/L	300.0
Chloride		220		10	mg/L	300.0
Ammonia		16		0.10	mg/L	L107-06-1B
Specific Conductance		950		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		120		100	ug/L	6010B
Chromium		20		5.0	ug/L	6010B
Sodium		130000		2000	ug/L	6010B
360-26898-8	**OC-SW-ISCO-1-0.2**					
Aluminum		130		100	ug/L	6010B
Chromium		20	B	5.0	ug/L	6010B
Sodium		110000		2000	ug/L	6010B
Sulfate		80		2.0	mg/L	300.0
Nitrate as N		0.76		0.050	mg/L	300.0
Chloride		220		10	mg/L	300.0
Ammonia		14		0.10	mg/L	L107-06-1B
Specific Conductance		940		1.0	umhos/cm	SM 2510B
Dissolved						
Aluminum		110		100	ug/L	6010B
Chromium		19		5.0	ug/L	6010B
Sodium		130000		2000	ug/L	6010B

METHOD SUMMARY

Client: Olin Corporation Job Number: 360-26898-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Dissolved Metals	TAL WFD	SW846 6010B	
Total Metals	TAL WFD	SW846 6010B	
Sample Filtration, Field	TAL WFD		FIELD_FLTRD
Preparation, Total Metals	TAL WFD		SW846 3010A
Chloride & Sulfate	TAL WFD	40CFR136A 300.0	
Nitrate & Nitrite	TAL WFD	40CFR136A 300.0	
Nitrogen Ammonia	TAL WFD	LACHAT L107-06-1B	
Distillation, Ammonia	TAL WFD		Distill/Ammonia
Conductivity, Specific Conductance	TAL WFD	SM SM 2510B	

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 360-26898-1

Method	Analyst	Analyst ID
SW846 6010B	Smith, Tim J	TJS
40CFR136A 300.0	Lalashius, Andrew L	ALL
LACHAT L107-06-1B	Lalashius, Andrew L	ALL
SM SM 2510B	Emerich, Rich W	RWE

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 360-26898-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-26898-1	OC-SW-ISCO-3-0.2	Water	02/18/2010 0845	02/18/2010 1655
360-26898-2	OC-SW-ISCO-2-0.2	Water	02/18/2010 0900	02/18/2010 1655
360-26898-3	OC-SW-PZ-16RR-0.2	Water	02/18/2010 0930	02/18/2010 1655
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	Water	02/18/2010 0930	02/18/2010 1655
360-26898-5	OC-SW-PZ-17RR-0.2	Water	02/18/2010 0950	02/18/2010 1655
360-26898-6	OC-SW-SD-17-0.2	Water	02/18/2010 1000	02/18/2010 1655
360-26898-7	OC-SW-PZ-18R-0.2	Water	02/18/2010 1035	02/18/2010 1655
360-26898-8	OC-SW-ISCO-1-0.2	Water	02/18/2010 1045	02/18/2010 1655

SAMPLE RESULTS

Mr. Steven Morrow
Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441

Job Number: 360-26898-1

Client Sample ID: **OC-SW-ISCO-3-0.2**
Lab Sample ID: **360-26898-1**

Date Sampled: 02/18/2010 0845
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed:		02/19/2010 1415	
Aluminum	ND		ug/L	39	100	1.0
Chromium	ND		ug/L	1.3	5.0	1.0
Sodium	81000		ug/L	250	2000	1.0
Method: 6010B			Date Analyzed:		02/19/2010 1550	
Prep Method: 3010A			Date Prepared:		02/19/2010 0735	
Aluminum	91	J	ug/L	39	100	1.0
Chromium	ND		ug/L	1.3	5.0	1.0
Sodium	77000		ug/L	250	2000	1.0

6/22/10
TC

Mr. Steven Morrow
Olin Corporation
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Job Number: 360-26898-1

Client Sample ID: **OC-SW-ISCO-3-0.2**
Lab Sample ID: **360-26898-1**

Date Sampled: 02/18/2010 0845
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Analyzed:		02/19/2010 1655	
Sulfate	46	mg/L	2.0	2.0	1.0
Nitrate as N	1.2	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Analyzed:		02/19/2010 1710	
Chloride	160	mg/L	10	10	10
Method: L107-06-1B		Date Analyzed:		02/25/2010 1534	
Prep Method: Distill/Ammonia		Date Prepared:		02/25/2010 1105	
Ammonia	3.1	mg/L	0.10	0.10	1.0
Method: SM 2510B		Date Analyzed:		02/19/2010 1013	
Specific Conductance	700	umhos/cm	1.0	1.0	1.0

TC
6/22/10

Mr. Steven Morrow
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Job Number: 360-26898-1

Client Sample ID: OC-SW-ISCO-2-0.2
Lab Sample ID: 360-26898-2

Date Sampled: 02/18/2010 0900
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		02/19/2010 1426	
Aluminum	510	ug/L	39	100	1.0
Chromium	170	ug/L	1.3	5.0	1.0
Sodium	170000	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		02/19/2010 1605	
Prep Method: 3010A		Date Prepared:		02/19/2010 0735	
Aluminum	3900	ug/L	39	100	1.0
Chromium	810 B	ug/L	1.3	5.0	1.0
Sodium	160000	ug/L	250	2000	1.0

TC 6-22-10

Mr. Steven Morrow
Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441

Job Number: 360-26898-1

Client Sample ID: OC-SW-ISCO-2-0.2
Lab Sample ID: 360-26898-2

Date Sampled: 02/18/2010 0900
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Analyzed:		02/19/2010 1828	
Nitrate as N	0.94	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Analyzed:		02/19/2010 1844	
Sulfate	450	mg/L	20	20	10
Chloride	220	mg/L	10	10	10
Method: L107-06-1B		Date Analyzed:		02/25/2010 1536	
Prep Method: Distill/Ammonia		Date Prepared:		02/25/2010 1105	
Ammonia	72	mg/L	1.0	1.0	10
Method: SM 2510B		Date Analyzed:		02/19/2010 1000	
Specific Conductance	1700	umhos/cm	1.0	1.0	1.0

TC
6/22/10

Mr. Steven Morrow
Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312-4441

Job Number: 360-26898-1

Client Sample ID: OC-SW-PZ-16RR-0.2
Lab Sample ID: 360-26898-3

Date Sampled: 02/18/2010 0930
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		02/19/2010 1435	
Aluminum	220	ug/L	39	100	1.0
Chromium	130	ug/L	1.3	5.0	1.0
Sodium	160000	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		02/19/2010 1608	
Prep Method: 3010A		Date Prepared:		02/19/2010 0735	
Aluminum	5300	ug/L	39	100	1.0
Chromium	1200 B	ug/L	1.3	5.0	1.0
Sodium	160000	ug/L	250	2000	1.0

TC
6-22-10

Mr. Steven Morrow
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Cleveland, TN 37312-4441

Job Number: 360-26898-1

Client Sample ID: **OC-SW-PZ-16RR-0.2**
Lab Sample ID: **360-26898-3**

Date Sampled: 02/18/2010 0930
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL		RL	Dilution
Method: 300.0		Date Analyzed:		02/19/2010 1930		
Nitrate as N	2.4	mg/L	0.050		0.050	1.0
Nitrite as N	ND	mg/L	0.010		0.010	1.0
Method: 300.0		Date Analyzed:		02/19/2010 1945		
Sulfate	320	mg/L	20		20	10
Chloride	240	mg/L	10		10	10
Method: L107-06-1B		Date Analyzed:		02/25/2010 1537		
Prep Method: Distill/Ammonia		Date Prepared:		02/25/2010 1105		
Ammonia	40	mg/L	1.0		1.0	10
Method: SM 2510B		Date Analyzed:		02/19/2010 1002		
Specific Conductance	1500	umhos/cm	1.0		1.0	1.0

6/22/10 TC

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Job Number: 360-26898-1

Client Sample ID: OC-SW-PZ-16RR-0.2-DUP
Lab Sample ID: 360-26898-4

Date Sampled: 02/18/2010 0930
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		02/19/2010 1438	
Aluminum	210	ug/L	39	100	1.0
Chromium	120	ug/L	1.3	5.0	1.0
Sodium	160000	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		02/19/2010 1611	
Prep Method: 3010A		Date Prepared:		02/19/2010 0735	
Aluminum	4800	ug/L	39	100	1.0
Chromium	1100 B	ug/L	1.3	5.0	1.0
Sodium	160000	ug/L	250	2000	1.0

TC
6-22-10

Mr. Steven Morrow
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Job Number: 360-26898-1

Client Sample ID: OC-SW-PZ-16RR-0.2-DUP
Lab Sample ID: 360-26898-4

Date Sampled: 02/18/2010 0930
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Analyzed:		02/19/2010 2000	
Nitrate as N	2.4	mg/L	0.050	0.050	1.0
Method: 300.0		Date Analyzed:		02/19/2010 2015	
Sulfate	310	mg/L	20	20	10
Chloride	240	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B		Date Analyzed:		02/25/2010 1540	
Prep Method: Distill/Ammonia		Date Prepared:		02/25/2010 1105	
Ammonia	43	mg/L	1.0	1.0	10
Method: SM 2510B		Date Analyzed:		02/19/2010 1003	
Specific Conductance	1500	umhos/cm	1.0	1.0	1.0

TC 6/22/10

Mr. Steven Morrow
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Job Number: 360-26898-1

Client Sample ID: OC-SW-PZ-17RR-0.2
Lab Sample ID: 360-26898-5

Date Sampled: 02/18/2010 0950
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		02/19/2010 1441	
Aluminum	130	ug/L	39	100	1.0
Chromium	83	ug/L	1.3	5.0	1.0
Sodium	150000	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		02/19/2010 1619	
Prep Method: 3010A		Date Prepared:		02/19/2010 0735	
Aluminum	2600	ug/L	39	100	1.0
Chromium	630 ~~B~~	ug/L	1.3	5.0	1.0
Sodium	140000	ug/L	250	2000	1.0

TC 6/22/10

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Job Number: 360-26898-1

Client Sample ID: **OC-SW-PZ-17RR-0.2**
Lab Sample ID: **360-26898-5**

Date Sampled: 02/18/2010 0950
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Analyzed:	02/19/2010 2028		
Nitrate as N	3.3	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Analyzed:	02/19/2010 2043		
Sulfate	210	mg/L	20	20	10
Chloride	230	mg/L	10	10	10
Method: L107-06-1B		Date Analyzed:	02/25/2010 1541		
Prep Method: Distill/Ammonia		Date Prepared:	02/25/2010 1105		
Ammonia	33	mg/L	0.50	0.50	5.0
Method: SM 2510B		Date Analyzed:	02/19/2010 1005		
Specific Conductance	1300	umhos/cm	1.0	1.0	1.0

TC
6/22/10

Mr. Steven Morrow
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Job Number: 360-26898-1

Client Sample ID: OC-SW-SD-17-0.2
Lab Sample ID: 360-26898-6

Date Sampled: 02/18/2010 1000
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		02/19/2010 1444	
Aluminum	150	ug/L	39	100	1.0
Chromium	60	ug/L	1.3	5.0	1.0
Sodium	150000 J	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		02/19/2010 1622	
Prep Method: 3010A		Date Prepared:		02/19/2010 0735	
Aluminum	4600	ug/L	39	100	1.0
Chromium	840 ~~B~~ J	ug/L	1.3	5.0	1.0
Sodium	130000	ug/L	250	2000	1.0

TC 6-22-10

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Job Number: 360-26898-1

Client Sample ID: OC-SW-SD-17-0.2
Lab Sample ID: 360-26898-6

Date Sampled: 02/18/2010 1000
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Analyzed:	02/19/2010 2128		
Nitrate as N	3.6	mg/L	0.050	0.050	1.0
Method: 300.0		Date Analyzed:	02/19/2010 2143		
Sulfate	200	mg/L	20	20	10
Chloride	240	mg/L	10	10	10
Nitrite as N	ND	mg/L	0.10	0.10	10
Method: L107-06-1B		Date Analyzed:	02/25/2010 1542		
Prep Method: Distill/Ammonia		Date Prepared:	02/25/2010 1105		
Ammonia	48	mg/L	0.50	0.50	5.0
Method: SM 2510B		Date Analyzed:	02/19/2010 1006		
Specific Conductance	1300	umhos/cm	1.0	1.0	1.0

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6-22-10

Mr. Steven Morrow
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Job Number: 360-26898-1

Client Sample ID: OC-SW-PZ-18R-0.2
Lab Sample ID: 360-26898-7

Date Sampled: 02/18/2010 1035
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		02/19/2010 1447	
Aluminum	120	ug/L	39	100	1.0
Chromium	20	ug/L	1.3	5.0	1.0
Sodium	130000	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		02/19/2010 1625	
Prep Method: 3010A		Date Prepared:		02/19/2010 0735	
Aluminum	140	ug/L	39	100	1.0
Chromium	22 B	ug/L	1.3	5.0	1.0
Sodium	120000	ug/L	250	2000	1.0

TC
6/22/10

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Job Number: 360-26898-1

Client Sample ID: **OC-SW-PZ-18R-0.2**
Lab Sample ID: **360-26898-7**

Date Sampled: 02/18/2010 1035
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 300.0		Date Analyzed:		02/19/2010 2159	
Sulfate	86	mg/L	2.0	2.0	1.0
Nitrate as N	0.69	mg/L	0.050	0.050	1.0
Nitrite as N	ND	mg/L	0.010	0.010	1.0
Method: 300.0		Date Analyzed:		02/19/2010 2214	
Chloride	220	mg/L	10	10	10
Method: L107-06-1B		Date Analyzed:		02/25/2010 1533	
Prep Method: Distill/Ammonia		Date Prepared:		02/25/2010 1105	
Ammonia	16	mg/L	0.10	0.10	1.0
Method: SM 2510B		Date Analyzed:		02/19/2010 1008	
Specific Conductance	950	umhos/cm	1.0	1.0	1.0

TC
6/22/10

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Job Number: 360-26898-1

Client Sample ID: OC-SW-ISCO-1-0.2
Lab Sample ID: 360-26898-8

Date Sampled: 02/18/2010 1045
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Dissolved-6010B		Date Analyzed:		02/19/2010 1449	
Aluminum	110	ug/L	39	100	1.0
Chromium	19	ug/L	1.3	5.0	1.0
Sodium	130000 J	ug/L	250	2000	1.0
Method: 6010B		Date Analyzed:		02/19/2010 1628	
Prep Method: 3010A		Date Prepared:		02/19/2010 0735	
Aluminum	130	ug/L	39	100	1.0
Chromium	20 B J	ug/L	1.3	5.0	1.0
Sodium	110000	ug/L	250	2000	1.0

TC
6/22/10

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Job Number: 360-26898-1

Client Sample ID: OC-SW-ISCO-1-0.2
Lab Sample ID: 360-26898-8

Date Sampled: 02/18/2010 1045
Date Received: 02/18/2010 1655
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL		RL	Dilution
Method: 300.0		Date Analyzed:		02/19/2010 2229		
Sulfate	80	mg/L	2.0		2.0	1.0
Nitrate as N	0.76	mg/L	0.050		0.050	1.0
Nitrite as N	ND	mg/L	0.010		0.010	1.0
Method: 300.0		Date Analyzed:		02/19/2010 2244		
Chloride	220	mg/L	10		10	10
Method: L107-06-1B		Date Analyzed:		02/25/2010 1534		
Prep Method: Distill/Ammonia		Date Prepared:		02/25/2010 1105		
Ammonia	14	mg/L	0.10		0.10	1.0
Method: SM 2510B		Date Analyzed:		02/19/2010 1009		
Specific Conductance	940	umhos/cm	1.0		1.0	1.0

TC
6/22/1

DATA REPORTING QUALIFIERS

Client: Olin Corporation Job Number: 360-26898-1

Lab Section	Qualifier	Description
Metals		
	B	Compound was found in the blank and sample.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Olin Corporation Job Number: 360-26898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 360-55194					
LCS 360-55194/2-A	Lab Control Sample	T	Water	3010A	
LCSD 360-55194/3-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 360-55194/1-A	Method Blank	T	Water	3010A	
360-26898-1	OC-SW-ISCO-3-0.2	T	Water	3010A	
360-26898-1DU	Duplicate	T	Water	3010A	
360-26898-1MS	Matrix Spike	T	Water	3010A	
360-26898-2	OC-SW-ISCO-2-0.2	T	Water	3010A	
360-26898-3	OC-SW-PZ-16RR-0.2	T	Water	3010A	
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	T	Water	3010A	
360-26898-5	OC-SW-PZ-17RR-0.2	T	Water	3010A	
360-26898-6	OC-SW-SD-17-0.2	T	Water	3010A	
360-26898-7	OC-SW-PZ-18R-0.2	T	Water	3010A	
360-26898-8	OC-SW-ISCO-1-0.2	T	Water	3010A	
Analysis Batch:360-55248					
LCS 360-55248/1	Lab Control Sample	T	Water	6010B	
LCSD 360-55248/8	Lab Control Sample Duplicate	T	Water	6010B	
MB 360-55248/2	Method Blank	T	Water	6010B	
360-26898-1	OC-SW-ISCO-3-0.2	D	Water	6010B	
360-26898-1DU	Duplicate	D	Water	6010B	
360-26898-1MS	Matrix Spike	D	Water	6010B	
360-26898-2	OC-SW-ISCO-2-0.2	D	Water	6010B	
360-26898-3	OC-SW-PZ-16RR-0.2	D	Water	6010B	
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	D	Water	6010B	
360-26898-5	OC-SW-PZ-17RR-0.2	D	Water	6010B	
360-26898-6	OC-SW-SD-17-0.2	D	Water	6010B	
360-26898-7	OC-SW-PZ-18R-0.2	D	Water	6010B	
360-26898-8	OC-SW-ISCO-1-0.2	D	Water	6010B	
Analysis Batch:360-55263					
LCS 360-55194/2-A	Lab Control Sample	T	Water	6010B	360-55194
LCSD 360-55194/3-A	Lab Control Sample Duplicate	T	Water	6010B	360-55194
MB 360-55194/1-A	Method Blank	T	Water	6010B	360-55194
360-26898-1	OC-SW-ISCO-3-0.2	T	Water	6010B	360-55194
360-26898-1DU	Duplicate	T	Water	6010B	360-55194
360-26898-1MS	Matrix Spike	T	Water	6010B	360-55194
360-26898-2	OC-SW-ISCO-2-0.2	T	Water	6010B	360-55194
360-26898-3	OC-SW-PZ-16RR-0.2	T	Water	6010B	360-55194
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	T	Water	6010B	360-55194
360-26898-5	OC-SW-PZ-17RR-0.2	T	Water	6010B	360-55194
360-26898-6	OC-SW-SD-17-0.2	T	Water	6010B	360-55194
360-26898-7	OC-SW-PZ-18R-0.2	T	Water	6010B	360-55194
360-26898-8	OC-SW-ISCO-1-0.2	T	Water	6010B	360-55194

Client: Olin Corporation

Job Number: 360-26898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis

D = Dissolved

T = Total

Client: Olin Corporation Job Number: 360-26898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-55220					
LCS 360-55220/1	Lab Control Sample	T	Water	SM 2510B	
MB 360-55220/18	Method Blank	T	Water	SM 2510B	
360-26898-1	OC-SW-ISCO-3-0.2	T	Water	SM 2510B	
360-26898-1DU	Duplicate	T	Water	SM 2510B	
360-26898-2	OC-SW-ISCO-2-0.2	T	Water	SM 2510B	
360-26898-3	OC-SW-PZ-16RR-0.2	T	Water	SM 2510B	
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	T	Water	SM 2510B	
360-26898-5	OC-SW-PZ-17RR-0.2	T	Water	SM 2510B	
360-26898-6	OC-SW-SD-17-0.2	T	Water	SM 2510B	
360-26898-7	OC-SW-PZ-18R-0.2	T	Water	SM 2510B	
360-26898-8	OC-SW-ISCO-1-0.2	T	Water	SM 2510B	
Analysis Batch:360-55279					
LCS 360-55279/4	Lab Control Sample	T	Water	300.0	
MB 360-55279/3	Method Blank	T	Water	300.0	
360-26898-1	OC-SW-ISCO-3-0.2	T	Water	300.0	
Analysis Batch:360-55281					
LCS 360-55281/4	Lab Control Sample	T	Water	300.0	
MB 360-55281/3	Method Blank	T	Water	300.0	
360-26898-2	OC-SW-ISCO-2-0.2	T	Water	300.0	
360-26898-2MS	Matrix Spike	T	Water	300.0	
360-26898-2MSD	Matrix Spike Duplicate	T	Water	300.0	
360-26898-3	OC-SW-PZ-16RR-0.2	T	Water	300.0	
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	T	Water	300.0	
360-26898-5	OC-SW-PZ-17RR-0.2	T	Water	300.0	
360-26898-6	OC-SW-SD-17-0.2	T	Water	300.0	
360-26898-7	OC-SW-PZ-18R-0.2	T	Water	300.0	
360-26898-8	OC-SW-ISCO-1-0.2	T	Water	300.0	
Analysis Batch:360-55282					
LCS 360-55282/4	Lab Control Sample	T	Water	300.0	
MB 360-55282/3	Method Blank	T	Water	300.0	
360-26898-1	OC-SW-ISCO-3-0.2	T	Water	300.0	

Client: Olin Corporation

Job Number: 360-26898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-55283					
LCS 360-55283/4	Lab Control Sample	T	Water	300.0	
MB 360-55283/3	Method Blank	T	Water	300.0	
360-26898-2	OC-SW-ISCO-2-0.2	T	Water	300.0	
360-26898-2MS	Matrix Spike	T	Water	300.0	
360-26898-2MSD	Matrix Spike Duplicate	T	Water	300.0	
360-26898-3	OC-SW-PZ-16RR-0.2	T	Water	300.0	
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	T	Water	300.0	
360-26898-5	OC-SW-PZ-17RR-0.2	T	Water	300.0	
360-26898-6	OC-SW-SD-17-0.2	T	Water	300.0	
360-26898-7	OC-SW-PZ-18R-0.2	T	Water	300.0	
360-26898-8	OC-SW-ISCO-1-0.2	T	Water	300.0	
Prep Batch: 360-55414					
LCS 360-55414/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-55414/1-A	Method Blank	T	Water	Distill/Ammonia	
360-26898-1	OC-SW-ISCO-3-0.2	T	Water	Distill/Ammonia	
360-26898-2	OC-SW-ISCO-2-0.2	T	Water	Distill/Ammonia	
360-26898-3	OC-SW-PZ-16RR-0.2	T	Water	Distill/Ammonia	
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	T	Water	Distill/Ammonia	
360-26898-5	OC-SW-PZ-17RR-0.2	T	Water	Distill/Ammonia	
360-26898-6	OC-SW-SD-17-0.2	T	Water	Distill/Ammonia	
360-26898-7	OC-SW-PZ-18R-0.2	T	Water	Distill/Ammonia	
360-26898-8	OC-SW-ISCO-1-0.2	T	Water	Distill/Ammonia	
Analysis Batch:360-55427					
LCS 360-55414/2-A	Lab Control Sample	T	Water	L107-06-1B	360-55414
MB 360-55414/1-A	Method Blank	T	Water	L107-06-1B	360-55414
360-26898-1	OC-SW-ISCO-3-0.2	T	Water	L107-06-1B	360-55414
360-26898-2	OC-SW-ISCO-2-0.2	T	Water	L107-06-1B	360-55414
360-26898-3	OC-SW-PZ-16RR-0.2	T	Water	L107-06-1B	360-55414
360-26898-4	OC-SW-PZ-16RR-0.2-DUP	T	Water	L107-06-1B	360-55414
360-26898-5	OC-SW-PZ-17RR-0.2	T	Water	L107-06-1B	360-55414
360-26898-6	OC-SW-SD-17-0.2	T	Water	L107-06-1B	360-55414
360-26898-7	OC-SW-PZ-18R-0.2	T	Water	L107-06-1B	360-55414
360-26898-8	OC-SW-ISCO-1-0.2	T	Water	L107-06-1B	360-55414

Report Basis

T = Total

Client: Olin Corporation

Job Number: 360-26898-1

Method Blank - Batch: 360-55194

Total Fraction Batch

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 360-55194/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1536
Date Prepared: 02/19/2010 0735

Analysis Batch: 360-55263
Prep Batch: 360-55194
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	ND		39	100
Chromium	1.60	J	1.3	5.0
Sodium	ND		250	2000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-55194

Method: 6010B
Preparation: 3010A

LCS Lab Sample ID: LCS 360-55194/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1545
Date Prepared: 02/19/2010 0735

Analysis Batch: 360-55263
Prep Batch: 360-55194
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 360-55194/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1548
Date Prepared: 02/19/2010 0735

Analysis Batch: 360-55263
Prep Batch: 360-55194
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	103	105	80 - 120	2	20		
Chromium	102	105	80 - 120	3	20		
Sodium	101	103	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-26898-1

Matrix Spike - Batch: 360-55194

Method: 6010B
Preparation: 3010A

Lab Sample ID: 360-26898-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1556
Date Prepared: 02/19/2010 0735

Analysis Batch: 360-55263
Prep Batch: 360-55194
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	91	J	5000	5390	106	75 - 125	
Chromium	ND		1000	1050	105	75 - 125	
Sodium	77000		20000	97200	99	75 - 125	

Duplicate - Batch: 360-55194

Method: 6010B
Preparation: 3010A

Lab Sample ID: 360-26898-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1553
Date Prepared: 02/19/2010 0735

Analysis Batch: 360-55263
Prep Batch: 360-55194
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	91	J	92.3	2	20	J
Chromium	ND		ND	NC	20	
Sodium	77000		78000	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-26898-1

Method Blank - Batch: 360-55248

Method: 6010B
Preparation: N/A

Lab Sample ID: MB 360-55248/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1357
Date Prepared: N/A

Analysis Batch: 360-55248
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Aluminum	ND		39	100
Chromium	ND		1.3	5.0
Sodium	ND		250	2000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-55248

Method: 6010B
Preparation: N/A

LCS Lab Sample ID: LCS 360-55248/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1353
Date Prepared: N/A

Analysis Batch: 360-55248
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 360-55248/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1429
Date Prepared: N/A

Analysis Batch: 360-55248
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	100	97	80 - 120	3	20		
Chromium	99	97	80 - 120	3	20		
Sodium	100	97	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-26898-1

Matrix Spike - Batch: 360-55248

Method: 6010B
Preparation: N/A

Lab Sample ID: 360-26898-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1421
Date Prepared: N/A

Analysis Batch: 360-55248
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	ND	5000	5170	103	75 - 125	
Chromium	ND	1000	998	100	75 - 125	
Sodium	81000	20000	97400	82	75 - 125	4

Duplicate - Batch: 360-55248

Method: 6010B
Preparation: N/A

Lab Sample ID: 360-26898-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1418
Date Prepared: N/A

Analysis Batch: 360-55248
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Aluminum	ND	ND	NC	20	
Chromium	ND	ND	NC	20	
Sodium	81000	81000	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-26898-1

Method Blank - Batch: 360-55279

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 360-55279/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1122
Date Prepared: N/A

Analysis Batch: 360-55279
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050
Nitrite as N	ND		0.010	0.010

Lab Control Sample - Batch: 360-55279

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 360-55279/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1137
Date Prepared: N/A

Analysis Batch: 360-55279
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	4.00	4.09	102	85 - 115	
Nitrite as N	4.00	4.05	101	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank - Batch: 360-55281

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 360-55281/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1756
Date Prepared: N/A

Analysis Batch: 360-55281
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050
Nitrite as N	ND		0.010	0.010

Lab Control Sample - Batch: 360-55281

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 360-55281/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1811
Date Prepared: N/A

Analysis Batch: 360-55281
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	4.00	4.19	105	85 - 115	
Nitrite as N	4.00	4.02	100	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-26898-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-55281

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	360-26898-2	Analysis Batch:	360-55281	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	02/19/2010 1859			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	360-26898-2	Analysis Batch:	360-55281	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	02/19/2010 1915			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate as N	113	114	75 - 125	1	20		
Nitrite as N	99	99	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-26898-1

Method Blank - Batch: 360-55282

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 360-55282/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1122
Date Prepared: N/A

Analysis Batch: 360-55282
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-55282

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 360-55282/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1137
Date Prepared: N/A

Analysis Batch: 360-55282
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	82.3	103	85 - 115	
Chloride	40.0	40.1	100	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank - Batch: 360-55283

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 360-55283/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1756
Date Prepared: N/A

Analysis Batch: 360-55283
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-55283

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 360-55283/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1811
Date Prepared: N/A

Analysis Batch: 360-55283
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	82.9	104	85 - 115	
Chloride	40.0	40.4	101	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Olin Corporation

Job Number: 360-26898-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-55283

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	360-26898-2	Analysis Batch:	360-55283	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	02/19/2010 1859			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	360-26898-2	Analysis Batch:	360-55283	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10			Initial Weight/Volume:	1.0 mL
Date Analyzed:	02/19/2010 1915			Final Weight/Volume:	10 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	99	99	75 - 125	0	20		
Chloride	98	98	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank - Batch: 360-55414

Method: L107-06-1B
Preparation: Distill/Ammonia

Lab Sample ID: MB 360-55414/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/25/2010 1517
Date Prepared: 02/25/2010 1105

Analysis Batch: 360-55427
Prep Batch: 360-55414
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-55414

Method: L107-06-1B
Preparation: Distill/Ammonia

Lab Sample ID: LCS 360-55414/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/25/2010 1518
Date Prepared: 02/25/2010 1105

Analysis Batch: 360-55427
Prep Batch: 360-55414
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	10.2	102	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank - Batch: 360-55220

Method: SM 2510B
Preparation: N/A

Lab Sample ID: MB 360-55220/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 1012
Date Prepared: N/A

Analysis Batch: 360-55220
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		1.0	1.0

Lab Control Sample - Batch: 360-55220

Method: SM 2510B
Preparation: N/A

Lab Sample ID: LCS 360-55220/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 0912
Date Prepared: N/A

Analysis Batch: 360-55220
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1410	1410	100	85 - 115	

Duplicate - Batch: 360-55220

Method: SM 2510B
Preparation: N/A

Lab Sample ID: 360-26898-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/19/2010 0958
Date Prepared: N/A

Analysis Batch: 360-55220
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Autotitrator
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	700	701	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried				
		New York (NELAC)	Mass	Conn	Florida (NELAC)	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)				NP	
SM 4500 Cl F	Chlorine, Residual		NP			
SM 9215B	Heterotrophic Plate Count (Pour Plate Method)		P			
SM 9215E	Heterotrophic Plate Count (SimPlate)		P			
SM 9221F	E.Coli (Multiple-Tube Fermentation; EC-MUG)		P			
SM 9222B	Coliforms, Total (Membrane Filter)		P			
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP			
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P			
200.8	Metals (ICP/MS) (list upon request)	NP/P	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW		NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	NP/P		
7470A	Mercury (CVAA)	NP		NP		
7471A	Mercury (CVAA)	SW		SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	NP/P		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		NP/P		
3010A	Preparation, Total Metals	NP/P		NP/P		
3020A	Preparation, Total Metals	NP/P/SW		NP/P/SW		
3050B	Preparation, Metals	SW		SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)		P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP		NP		
3546	Microwave Extraction	SW				
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		NP		
3540C	Soxhlet Extraction					
3550B	Ultrasonic Extraction	SW		SW		
600/4-81-045	Polychlorinated Biphenyls (PCBs) (GC)		NP	NP		
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW		NP/SW		
8082A	PCBs by Gas Chromatography(list upon request)	NP/SW		NP/SW		
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW		
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	P		
524.2	Trihalomethanes		P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	NP		
5035	Closed System Purge and Trap	SW		SW		
5030B	Purge and Trap	NP		NP		
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			NP/SW		NP/SW
180.1	Turbidity, Nephelometric		P	P		
300	Anions, Ion Chromatography	NP/P	NP/P	NP/P		
410.4	COD	NP	NP	NP		
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	NP		
7196A	Chromium, Hexavalent	NP/SW		NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		NP		
9040B	pH	NP		NP		
9045C	pH	SW		SW		
L107041C	Nitrogen, Nitrate	NP	P	NP/P		
L107-06-1B	Nitrogen Ammonia	NP	NP	NP/P		
L204001A CN	Cyanide, Total		NP/P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP		NP		
SM 4500 H+ B	pH	NP/P	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	NP/P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	NP/P		
SM 4500 P E	Phosphorus, Total	NP	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP		NP		
SM 5210B	BOD, 5-Day	NP	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP	NP	NP/P		

Not all organic compounds are accreditied under NELAC
For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory
The lab carries additional accreditations with several states. This is listing is subject to change based on the laboratories current certification standing.

Login Sample Receipt Check List

Client: Olin Corporation

Job Number: 360-26898-1

Login Number: 26898

List Source: TestAmerica Westfield

Creator: Rinard, Kimberley A

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica Laboratories, Inc.

Chain of Custody Form

TestAmerica

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707

360 26898

Job#	Quote#	PO#

Client: Olin Chemical/MACTEC
Address: 51 Eames Street
Wilmington, MA 01887
Phone: Fax:

Project #: 6107-09-0016-04
Project Manager: P. Thompson
Work ID: **Surface Water**
Contact: David Chapman

Requested Turn Around Time
10 Business Day (Std) XX | Rush TAT Requested: 24 hrs ___ 72 hrs ___
15 Business Day ___ | 48 hrs ___ 5 Day ___
Other ___

Regulatory Classification / Special Report Format
NPDES ___ Drinking Water ___ DEP Form(s) ___
RCRA ___ MCP GW1/S1 ___ MWRA Smart Rpt ___
Other ___ MCP QA/QC Rpt XX

Shaded areas for office use

Analysis Requested
Check analysis and specify method and analytes in comments section.
For example:
500-series for drinking water
600-series for waste water
8000-series for haz/solid waste
Use comments section to further define.

Comments
(Special Instructions)

MCP case narrative

Sample Type Codes
WW-Wastewater DW-Drinking water SW-Surfacewater
LW-Labwater GW-Groundwater A-Air
S-Solid / Soil SL-Sludge O-Oil Z-Other

Sample ID	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	Preservative: NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >12	NAOH/ZNAC	None / 4°C	Ammonia-Nitrogen	Chloride, Sulfate	Specific Conductivity	Nitrate, Nitrite	Diss Al/Cr/Na by 6010B	Tot. Al/Cr/Na by 6010B	Other	Other	Other	Other	Other	Other	Other
oc-sw-1sco-3-0.2	SW	MAM	2-18-10 8:45	X		4	P		2	1				1	X	X	X	X	X	X							
oc-sw-1sco-2-0.2	SW	MAM	2-18-10 9:00	X		4	P		2	1				1	X	X	X	X	X	X							
oc-sw-pz-16RR-0.2	SW	MAM	2-18-10 9:30	X		4	P		2	1				1	X	X	X	X	X	X							
oc-sw-pz-16RR-~~DUP~~ 0.2-DUP	SW	MAM	2-18-10 9:30	X		4	P		2	1				1	X	X	X	X	X	X							
oc-sw-pz-17RR-0.2	SW	MAM	2-18-10 9:50	X		4	P		2	1				1	X	X	X	X	X	X							
oc-sw-sd-17-0.2	SW	MAM	2-18-10 10:00	X		4	P		2	1				1	X	X	X	X	X	X							
oc-sw-pz-18R-0.2	SW	MAM	2-18-10 10:35	X		4	P		2	1				1	X	X	X	X	X	X							
oc-sw-1sco-1-0.2	SW	MAM	2-18-10 10:45	X		4	P		2	1				1	X	X	X	X	X	X							
2/18/2010																											
			2/18/2010																								

Dissolved metals are field filtered.

Analysis--
Ammonia Nitrogen--Lac 107-06-1B
Chloride/sulfate--EPA 300
Specific Conductivity--SM 2510B
Nitrate/Nitrite--EPA 300
48 hour hold time on NO2, NO3

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ID changes made per David Chapman Re 2/19/10

Sampled by (print): Mark Maggiore
Signature:

	Date:	Time:
Relinquished by: David Chapman	2/18/10	14:48
Relinquished by:	2/18/10	1520
Method of shipment:	2-18-10	1655
Received by:	2/18/10	1448
Received by:	2-18-10	1520
TestAmerica-Westfield	2/18/2010	1655

Cooler ? Y / N Samples Iced? Y / N
Temp @ receipt: 0.6° C °C
Preservation/pH checked
By: VM Date: 2/18/2010

White = Lab file Yellow = Report copy Pink = Customer copy
STL-8245 (1000)